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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22879

7590

08/11/2009

HEWLETT-PACKARD COMPANY Intellectual Property Administration 3404 E. Harmony Road Mail Stop 35 FORT COLLINS, CO 80528

EXAMINER				
JEAN, FRANTZ B				
ART UNIT	PAPER NUMBER			

2454 DATE MAILED: 08/11/2009

APPI	ICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
1	0/684.033	10/09/2003	W. Bruce Culbertson	200315392-1	3187

TITLE OF INVENTION: METHOD AND SYSTEM FOR CLUSTERING DATA STREAMS FOR A VIRTUAL ENVIRONMENT

APPLN	. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonpro	visional	NO	\$1510	\$300	\$0	\$1810	11/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence including ed below or directed other tions.	ng the Patent, advance onerwise in Block 1, by (	rders and notification o a) specifying a new cor	f maintenance fees respondence address	will be s; and/or	mailed to the current r (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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HEWLETT-PACKARD COMPANY Intellectual Property Administration 3404 E. Harmony Road			I S ac tr	Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
Mail Stop 35 FORT COLLIN	S CO 80528						(Depositor's name)
TORTCOLLIN	5, CO 00320						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR .	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/684,033	10/09/2003		W. Bruce Culbertson			200315392-1	3187
TITLE OF INVENTION	: METHOD AND SYST	TEM FOR CLUSTERING	G DATA STREAMS FO	R A VIRTUAL ENV	/IRONN	MENT	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	JE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	11/12/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
JEAN, FF	RANTZ B	2454	709-231000				
☐ "Fee Address" ind	ondence address (or Cha 3/122) attached. ication (or "Fee Address )2 or more recent) attach	inge of Correspondence	2. For printing on the (1) the names of up or agents OR, alterna (2) the name of a sir registered attorney of 2 registered patent a listed, no name will	to 3 registered pate attively, agle firm (having as ar agent) and the nar attorneys or agents. If	nt attorr a memb nes of u	per a 2	
PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Comp	A TO BE PRINTED ON ified below, no assignee pletion of this form is NO	data will appear on the	patent. If an assign assignment.			cument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🗖 C	Corporati	ion or other private gro	up entity 🔲 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	*	*	<b>D</b>				
• •	s SMALL ENTITY state		b. Applicant is no lead from anyone other the				R 1.27(g)(2).  e assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	c Office.	п ше аррисан; а гед	;istered :	attorney of agent; of the	e assignee of other party in
Authorized Signature				Date			
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10/684,033	10/09/2003	W. Bruce Culbertson	200315392-1	3187
22879 75	90 08/11/2009		EXAM	INER
HEWLETT-PAC	KARD COMPANY	JEAN, FRANTZ B		
Intellectual Propert			ART UNIT	PAPER NUMBER
3404 E. Harmony I Mail Stop 35 FORT COLLINS,			2454 DATE MAILED: 08/11/200	9

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 935 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 935 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/684,033	CULBERTSON ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Frantz B. Jean	2454	
	Frantz B. Jean	2454	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ) or other appropriate comr RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. <b>Th</b>	
1. This communication is responsive to the RCE filed on 6/2:	<u>9/09</u> .		
2. X The allowed claim(s) is/are <u>1,5-22,25 and 29-39</u> .			
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority u</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>		) or (f).	
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Applica	ion No	
<ol><li>Copies of the certified copies of the priority do</li></ol>	ocuments have been receiv	ed in this national stage application from t	he
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements	3
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			=
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Revi	ew ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	_•		
<ul><li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li></ul>	's Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR areach sheet. Replacement sheet(s) should be labeled as such in			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s)	5 Notice of	Informal Datant Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<u> </u>	Informal Patent Application Summary (PTO-413),	
	Paper No	o./Mail Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/29/09</li> </ol>	7. 🛛 Examiner	s Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner	s Statement of Reasons for Allowance	
	9. 🔲 Other	<u>_</u> .	
/Frantz B. Jean/			
Primary Examiner, Art Unit 2454			

Claims 1, 5-22, 25, and 29-39 are allowed over the prior art of record and in light of applicant's arguments.

### Information Disclosure Statement

The information disclosure statement (IDS) submitted on 06/29/09 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Wagner on 03/03/09.

The application has been amended as follows:

Claims 25 and 29-39, after "computer readable", insert -storage--.

The following is an examiner's statement of reasons for allowance: the prior art fails to teach the steps of generating a common video image stream as said common data stream of an object associated with said sending node using a new view synthesis technique, wherein said common video image stream is rendered from a common perspective in said virtual environment that is associated with said cluster of receiving nodes wherein said common perspective is calculated from an average of said at least one cluster in parameter; generating a three-dimensional model of said object to which

said new view synthesis technique is applied to generate said common video image stream; and sending said common data stream from a sending node to said cluster of receiving nodes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frantz B. Jean whose telephone number is 571-272-3937. The examiner can normally be reached on 8:30-6:00 M-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/684,033

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Art Unit: 2454

/Frantz B. Jean/ Primary Examiner, Art Unit 2454